

## AMENDMENT TRANSMITTAL LETTER (Large Entity)

Applicant(s): Yoshinori ITO

Docket No.

04452/015001

Serial No.  
09/912,938Filing Date  
July 25, 2001

Examiner

Group Art Unit

Invention:

JAN 24 2002

ABSOLUTE POSITION DETECTING DEVICE FOR A LINEAR ACTUATOR

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TO THE ASSISTANT COMMISSIONER FOR PATENTS:

JAN 30 2002

Transmitted herewith is an amendment in the above-identified application.

Technology Center 2600

The fee has been calculated and is transmitted as shown below.

## CLAIMS AS AMENDED

	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST # PREV. PAID FOR	NUMBER EXTRA CLAIMS PRESENT	RATE	ADDITIONAL FEE
TOTAL CLAIMS	2 -	20 =	0	x \$18.00	\$0.00
INDEP. CLAIMS	1 -	3 =	0	x \$84.00	\$0.00
Multiple Dependent Claims (check if applicable)		<input type="checkbox"/>			\$0.00
					TOTAL ADDITIONAL FEE FOR THIS AMENDMENT
					\$0.00

No additional fee is required for amendment.

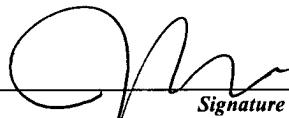
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Any patent application processing fees under 37 CFR 1.17.



Signature

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Dated:

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I certify that this document and fee is being deposited on 12-12-01 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231



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PRELIMINARY AMENDMENT  
ATTORNEY DOCKET NO.: 04452/015001

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TC 2600 ART. UNIT:  
MAIL ROOM

EXAMINER:

APPLICANT: Yoshinori ITO

SERIAL NO: 09/912,938

FILED: July 25, 2001

TITLE: Absolute Position Detecting Device for a Linear Actuator

U.S. Patent and Trademark Office

P. O. Box 2327

Arlington, VA 22202

**PRELIMINARY AMENDMENT**

Dear Sir:

Before examining the referenced application on the merits, please amend the application as outlined below:

**IN THE SPECIFICATION**

Please amend the Specification as follows. A marked-up copy of the amended portions of the Specification are provided in Appendix B:

Please replace paragraph 5 located at page 4, line 39 through page 5, line 9 with the following:

*a*  
(Amended) With each rotation of the motor 2, the actuator output shaft 3 is moved linearly in the axial direction by an amount that is in accordance with the lead pitch of the ball-screw 41. Here, the combination of signal A and signal B will be examined. If  $L_p$  is the amount by which the output shaft 3 is moved per rotation of the motor and  $S_p$  is the detection pitch (one linear-stroke pitch) as detected by the linear absolute sensor, and  $L_p \neq S_p$ , then, if signals A and B are combined, even if the output shaft 3 moves within the space of the movement interval until  $aL_p = bS_p$  (where a and b are arbitrary coefficients), at no point of the movement is the combination of the signals A and B the same. Therefore, provided that the values of coefficients a and b are sufficiently large, it is possible to realize a linear absolute sensor that, based on the combination